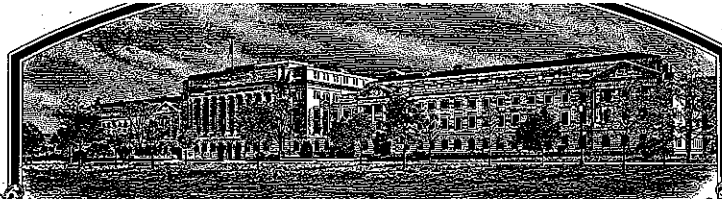


No.

200400031



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Seminis Vegetable Seeds, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE HERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLACEMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN, GARDEN

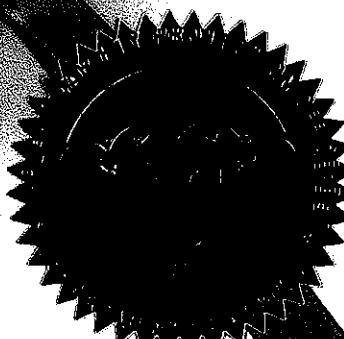
'Romano Gold'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this third day of May, in the year two thousand and seven.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

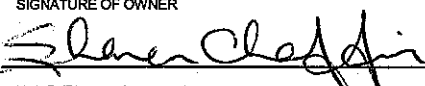


U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER Seminis Vegetable Seeds, Inc.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME XP 08190506		3. VARIETY NAME Romano Gold	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 2700 Camino del Sol Oxnard, CA 93030-7967		5. TELEPHONE (include area code) (805) 647-1572		FOR OFFICIAL USE ONLY PVPO NUMBER 200400031 FILING DATE 11/25/2003	
		6. FAX (include area code) (805) 918-2545			
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION California		9. DATE OF INCORPORATION 4-Jun-1962	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)				FILING AND EXAMINATION FEES: \$ 3652.00 DATE 11/21/2003 CERTIFICATION FEE: \$ 768.00 DATE 4/23/07	
Sharen Chaffin Seminis Vegetable Seeds, Inc. 37437 State Hwy 16 Woodland CA 95695 Marcel Bruins Seminis Vegetable Seeds, Inc. Nude 54D 6702 DN Wageningen The Netherlands marcel.bruins@seminis.com PH: 31 317 450218; FX 31 317 450217					
11. TELEPHONE (Include area code) (530) 669-6172		12. FAX (Include area code) (530) 666-4426		13. E-MAIL sharen.chaffin@seminis.com	
14. CROP KIND (Common Name) Garden bean		15. GENUS AND SPECIES NAME OF CROP Phaseolus vulgaris		16. FAMILY NAME (Botanical) Leguminosae	
17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)			
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no", go to item 22) 20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED 21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)			
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)			
24. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.					
The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.					
Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER 		SIGNATURE OF OWNER			
NAME (Please print or type) Sharen Chaffin		NAME (Please print or type)			
CAPACITY OR TITLE IP Specialist		DATE 20-Nov-03		CAPACITY OR TITLE DATE	

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) evidence of uniformity and stability; and (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Greece: April 2002

US: December 2002

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

EU: EU-PVP filing date of 3 Feb. 2003 and filing no. = 2003/0205

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089. <http://www.ams.usda.gov/lsg/seed.htm>

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (02-10-2003) designed by the Plant Variety Protection Office with Word 2000. Replaces former versions of ST-470, which are obsolete.

EXHIBIT A**The Origin and Breeding History of Romano Gold (EX 08190506)**

Using backcross breeding and selection, the experimental snap bean line *Romano Gold* (08190506) was developed at the Seminis Breeding Station in Twin Falls, ID. The population used to derive *Romano Gold* originated from a cross between *Primo* as the female and *WR264* as the male. *Primo* is green Romano type developed and marketed by the Harris Moran Seed Company (P.V.P. no. 8900041). *WR264* was an experimental wax bean from Syngenta (Rogers Seed Company at the time). Information received from Dan Walquist of Syngenta states that *WR264* was marketed for a short time as ROMAX. ROMAX was granted US PVP as 'Wax Romano 82264' (PVP certificate 9200135 issued 02/26/1993).

12/94 – *Primo* (Pot #775) and *WR264* (Pot # 777) were planted in the greenhouse at Twin Falls Idaho; pollinations were made during the month of February. In March, nine seeds were harvested from the pollination's and bulked as R94gh 775 X 777.

04/95- Nine F1 seeds from the cross R92gh 775 X 777 were planted in the Seminis greenhouse at Twin Falls, ID and the F2 seed the harvested from each F1.

07/95 –F2 seed from the F1 designated WAX10.01 (selected for flat pods) was planted in the greenhouse at Twin Falls, ID and eight F2 single plant selections for wax color and flat pods were made and designated as WAX28.

10/95 –Three F3 seeds of WAX28 were planted and crossed to *Primo* resulting in five F1 seeds designated as WAX55 (Bc1)

01/96 –Five F1 seeds designated as WAX55 were planted in the greenhouse and crossed to *Primo* resulting in six F1 seeds designated as WAX74. (Bc2)

04/96 – Six F1 seeds designated as WAX74 were planted and seed of a single F1 plant with flat pods was saved from a cross of a WAX55 line with yellow pods and designated as WAX92. (Bc2S1)

06/96 –Seeds of WAX 92 were planted in the greenhouse resulting in 14 single plant selections for yellow color and flat pods. Seed was harvested, bulked, and designated as WAX158 (Bc2S2)

02/97 – Seeds of WAX158 were planted in the greenhouse at Twin Falls, ID and 6 single plant selections were made for yellow color and flat pods. These plants were designated WAX158.01 – WAX158.06. (Bc2S3)

06/97 –Seeds of each WAX158 selection were planted at the Seminis Research Farm in Twin Falls, ID. Selection WAX158.02 (Bc2S3) planted under the stake number R97.26161 was harvested as a bulk. Observations during the growing season indicated the line was uniform and stable. All subsequent increases of Romano Gold trace to the bulk of R97.26161.

06/99 –Bulk seed of R97.26161 was grown out at the Seminis Research Station as a four-row increase under the stake number RWK 662. Observations during the growing season confirmed the line was uniform and stable. The trial number 08190506 was assigned to increases of RWK 662

11/99 –Bulk seed of RWK 662 was sent to Chile to create a foundation seed crop. Observation during the growing season in Chile confirmed the line was uniform and stable

06/00 - The foundation seed crop, CH00,20013 was grown and harvested in Twin Falls under the stake number RWL 341. The crop was once again determined to be uniform and stable.

Observations during the years of 1997, 1999, 2000, 2001, and 2002 confirm *Romano Gold* (08190506) as uniform and stable within commercially acceptable limits. As is true with other garden beans, a small percentage of variants can occur within commercially acceptable limits for almost any characteristic during the course of repeated multiplication. However, no variants were observed during the five years in which *Romano Gold* was observed for uniformity and stability.

The selection criteria for the early generations represented an effort to create an acceptable wax color in the flat podded Romano market type while balancing productivity and quality required for the commercial production in both the fresh market and processing industry. Specific selection criteria for the early generations (Bc1-Bc2S3) of 08190506 represented pod productivity (yield), pod quality (low fiber, yellow color, and Romano type of pod), and germination potential (i.e. seed quality ratings). In the higher generations (Bc2S3), we advanced 08190506 for broad-based adaptation, with good yield and plant type.

EXHIBIT B**Novelty Statement Concerning Romano Gold (08190506)**

Romano Gold is a dual use type of Romano class bean cultivar developed by backcross breeding and pedigree selection at the Seminis Research Station in Twin Falls, Idaho. To our knowledge the variety that most closely resembles *Romano Gold* for agronomic and general production characteristics is *Gina*, which was developed and marketed by Seminis and used in the development of *Primo*. The comparative characteristic that most readily distinguishes *Romano Gold* from either *Primo* or *Gina* is yellow color of *Romano Gold's* immature pods versus the green color of *Gina* or *Primo*. No statistical analysis is required for this comparison.

Romano Gold was never compared to the WR264 (ROMAX) from Syngenta (previously Rogers Seed Co.). Due to the failure of ROMAX commercially no seed of ROMAX is available for comparison. No seed of WR264 was saved from the crossing blocks in 1994. The segregation for wax types in the F2 ensures that the F1 was in fact a cross since ROMAX was the pollen source.

OBJECTIVE DESCRIPTION OF VARIETY
GARDEN BEAN (*Phaseolus vulgaris* L.)

NAME OF APPLICANT(S) Seminis Vegetable Seeds, Inc. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) 2700 Camino del Sol Oxnard, CA 93030-7967	FOR OFFICIAL USE ONLY
	PVPO NUMBER 200400031
	VARIETY NAME Romano Gold
	TEMPORARY OR EXPERIMENTAL DESIGNATION 08190506

PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g. or) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Measured data should be for SPACED PLANTS. Ranges should also be given. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used:

Please answer all questions for your variety; lack of response may delay progress of your application.

1. TYPE:

4

1 = Garden 2 = Snap 3 = Flageolet 4 = Romano

2. MARKET MATURITY:

Comparison varieties

6 3

Days to edible pods

1 2 7 8

Heat units to edible pods

Number of days earlier than

..... Same number of days as

0 3

Number of days later than 8

1 = 'Tendercrop'

2 = 'Kentucky Wonder'

3 = 'Goldrush'

4 = 'Slenderette'

5 = 'Gitana'

6 = 'Provider'

7 = 'Bush Blue Lake 290'

8 = Other (specify below)

Roma II

3. PLANT:

0 6 ⁰

cm Spacing between plants in a row

1

Habit

1 = Determinate

2 = Indeterminate, erect stem and branches

3 = Indeterminate with weak and prostrate stem and branches

4 = Indeterminate climbing habit with weak, long and twisted stem and branches

0 3 6

cm Height

cm Shorter than

..... Same height as

0 1

cm Taller than

5 1

cm Spread

cm Narrower than

..... Same width as

0 2

cm Wider than

8

8

Use Comparison Varieties from Section 2.

Please make all 3 comparisons for Height and Spread.

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3. PLANT: (continued)

☐ 3

Pod position 1=Low 2=High 3=Scattered

☐ 3

Bush form (illustrated below)



1=Spherical bush form



2=Stem bush form



3=Wide bush form



4=High bush form

5=Other (SPECIFY) _____

4. LEAVES:

☐ 3

Surface: 1=Dull 2=Glossy 3=Intermediate

☐ 2

Size: 1=Small ('Gitana') 2=Medium 3=Large ('Tendercrop')

☐ 2Color: 1=Light green (as light or lighter than 'Goldrush')
2=Medium green
3=Dark green (as dark or darker than 'Bush Blue Lake 290')

5. ANTHOCYANIN PIGMENT:

1=Absent 2=Present

☐ 1

Flowers

☐ 1

Stems

☐ 1

Pods

☐ 1

Seeds

☐ 1

Leaves

☐ 1

Petioles

☐ 1

Peduncles

☐ 1

Nodes

6. FLOWER COLOR AND DAYS TO BLOOM:

☐ 2

Color of standard

☐ 2

Color of wings

☐ 2

Color of Keel

☐ 4☐ 7

Days to 50% bloom

Flower Color Choices

1=White

2=Cream

3=Pink

4=Lilac

5=Purple

6=Blue

7=Other (SPECIFY) _____

03 NOV 21 2007

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7. PODS (edible maturity):

☐ 4Exterior color
(fresh)

1=Light green (as light or lighter than 'Provider')

2=Medium green

3=Dark green (as dark or darker than 'Bush Blue Lake 290')

4=Yellow ('Goldrush')

5=Green-red variegated (horticultural)

6=Other (SPECIFY) _____

☐

Processed pods (exterior color)

1=Light ('Tendercrop')

2=Dark ('Bush Blue Lake 290')

☐ 1





Dry pod color

1=Buckskin ('Sprite')

2=Green, persistent chlorophyll ('Hystyle')

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7. PODS: (edible maturity): (continued)

- 1 Cross section pod shape (middle of the pod) 1=Flat 2=Heart (Pear) 3=Round 4=Figure eight
   
- 2 Creaseback 1=Present 2=Absent
- 3 Pubescence 1=None ('Slenderette') 2=Sparse 3=Considerable ('Provider' or 'Sprite')
- 1 Constriction (Interlocular cavitation) 1=None 2=Slight 3=Deep
- 0 9 mm Spur length
- 2 Fiber 1=None ('Bush Blue Lake 290') 2=Sparse 3=Considerable ('Sprite')
- 5 Number of seeds per pod
- 2 Suture string 1=Present 2=Absent
- 2 Seed development 1=Slow ('Bush Blue Lake 290') 2=Medium 3=Fast ('Provider')
- 1 Machine harvest 1=Adapted 2=Not adapted

Percent sieve size distribution at optimum maturity for non-flat pods

4.76 to 5.76mm	5.76 to 7.34mm	7.34 to 8.34mm	8.34 to 9.53mm	9.53 to 10.72mm	≥ 10.72mm
%	%	%	1.00 ← %	0.00 → %	%

3 Sieve	<input type="text"/>	cm length	<input type="text"/>	mm width	<input type="text"/>	total mm thickness
4 Sieve	1 2	cm length	1 6 9	mm width	8 2	total mm thickness
5 Sieve	<input type="text"/>	cm length	<input type="text"/>	mm width	<input type="text"/>	total mm thickness
6 Sieve	<input type="text"/>	cm length	<input type="text"/>	mm width	<input type="text"/>	total mm thickness

8. SEED COLOR:

- 2 Seedcoat luster 1=Shiny 2=Dull 3=Semishiny 4=Variable
- 1 Seedcoat 1=Monochrome 2=Polychrome
- 0 1 Primary color 1=White 2=Yellow 3=Buff 4=Tan 5=Brown 6=Pink 7=Red 8=Purple
9=Blue 10=Black 11=Other (SPECIFY) _____
- Secondary color 1=White 2=Yellow 3=Buff 4=Tan 5=Brown 6=Pink 7=Red 8=Purple
9=Blue 10=Black 11=Other (SPECIFY) _____
- Seedcoat pattern 1=Solid 2=Splashed 3=Mottled 4=Striped 5=Flecked 6=Dotted
- 1 Hilar ring 1=Absent 2=Present
- Hilar Ring Color 1=White 2=Yellow 3=Buff 4=Tan 5=Brown 6=Pink 7=Red 8=Purple
9=Blue 10=Black 11=Other (SPECIFY) _____

9. SEED SHAPE AND SIZE:

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2

Hilum view



1=Elliptical



2=Oval



3=Round

2

Cross section

1=Elliptical

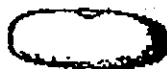
2=Oval

3=Cordate

4=Round

2

Side view



1=Oval to Oblong



2=Round



3=Reniform

NOV 21

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3 0

gm/100 Seed

gm/100 Seed lighter than

gm/100 Seed same as

gm/100 Seed heavier than

8

Use Comparison Varieties from Section 2.

Please make all 3 comparisons.

10. DISEASE RESISTANCE:

0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Intermediate

4 = Tolerant

PLEASE SPECIFY RACE OR STRAIN WHERE APPROPRIATE

1

Anthracnose (*Colletotrichum lindemuthianum*)

☐

Race Alpha

☐

Race Beta

☐

Race Gamma

☐

Race Delta

☐

Race Epsilon

☐

Race Lambda

☐

Race Kappa

☐

specify race _____

2

Bean Rust (*Uromyces appendiculatus*)

☒

Race 38

☐

Race 39

☐

Race 40

☐

Race 44

☐

Race 45

☐

Race 46

☐

Race 49

☐

Race 50

☐

Race 51

☐

Race 52

☐

Race 54

☐

Race 56

☐

Race 59

☐

specify race _____

0

Powdery Mildew (*Erysiphe polygoni*) _____

0

Fusarium Root Rot (*Fusarium solani* f. sp. *phaseoli*) _____

0

Pythium Root Rot (*Pythium* spp.) _____

0

Aphanomyces Root Rot (*Aphanomyces euteiches*) _____

0

Rhizoctonia Root Rot (*Rhizoctonia solani*) _____

0

Pythium Blight or Aerial Pythium (*Pythium ultimum*) _____

0

Angular Leaf Spot (*Isariopsis griseola*) _____

0

Bacterial Wilt (*Corynebacterium flaccumfaciens* subsp. *flaccumfaciens*) _____

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10. DISEASE RESISTANCE: (continued)

☐ 1 Bacterial Brown Spot (*Pseudomonas syringae* pv. *syringae*) _____

☐ 0 Common Bacterial Blight (*Xanthomonas campestris* pv. *phaseoli*) _____

☐ 1 Halo blight (*Pseudomonas syringae* pv. *phaseolicola*) _____

☐ Race 1 ☐ Race 2 ☐ Other (SPECIFY) _____

☐ 0 Clover Yellow Vein Virus (CYVV) _____

☐ 2 Bean Common Mosaic Virus (BCMV) _____

☐ BV1 ☐ NY15 ☐ NL2 ☐ NL3

☐ NL4 ☐ NL8 ☐ Florida ☐ Idaho

☐ Mexican ☐ Western ☐ Type

☒ X Other (SPECIFY) Protected 'I' gene _____

☐ 0 Yellow Bean Mosaic Virus (BYMV) _____

☐ 0 Curly Top Virus (CTV) _____

☐ 0 Other (Specify Disease and Race or Strain) _____

11. INSECT RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant

☐ 0 Aphid ☐ 0 Root Knot Nematode

☐ 0 Leafhopper ☐ 0 Seed Corn Maggot

☐ 0 Lygus ☐ 0 Thrips

☐ 0 Pod Borer ☐ 0 Weevils

☐ Other (SPECIFY) _____

12. PHYSIOLOGICAL RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant

☐ 0 Heat ☐ 0 Cold ☐ 0 Drought

☐ 0 Air Pollution ☐ 2 Ozone

☐ Other (SPECIFY) _____

13. COMMENTS:

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE**EXHIBIT E**
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) Seminis Vegetable Seeds, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER XP 08190506	3. VARIETY NAME Romano Gold
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 2700 Camino del Sol Oxnard, CA 93030-7967	5. TELEPHONE (Include area code) (805) 647-1572	6. FAX (Include area code) (805) 918-2545
7. PVPO NUMBER 200400031		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. ☒ YES ☐ NO9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. ☐ YES ☐ NO10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES ☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

The variety named in this application was developed by the Seminis Vegetable Seeds, Inc., employee (breeder) named below. By agreement between employee and Seminis Vegetable Seeds, Inc., all rights to any invention, discovery, or development made by an employee are assigned to the Company. No rights to such an invention, discovery, or development are retained by the employee.

Employee (Breeder): George Kotch/Ken Kmiecik

Site Location: TwinFalls, ID

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.